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TEOM GENTER 1600/2800

(1)INFORMATION:

APPLICANT:

Fred J. Stevens Marianne Schiffer Priscilla Wilkins-Stevens

W. Carey Hanly Sandra L. Tollaksen

(ii) TITLE OF INVENTION: DEVICE FOR DETECTING MOLECULES, METHOD FOR **DETECTING MOLECULES**

(iii)NUMBER OF SEQUENCES: 5
(iv) CORRESPONDENCE ADDRESS:

- ADDRESSEE: CHERSKOV & FLAYNIK STREET: 20 N. Wacker Drive
- (B) CITY: Chicago
- STATE: Illinois
- (E) COUNTRY: United States
- (F) ZIP: 60606
- COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: compact disc
 - COMPUTER: PC
 - OPERATING SYSTEM: Microsoft Windows XP (C)
 - SOFTWARE: Wordperfect (D)
- (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 09/368,989
 - (B) FILING DATE: 1999-AUG-05
- (viii) ATTORNEY/AGENT INFORMATION:
 - NAME: Cherskov, Michael J. REGISTRATION NUMBER: 33,664
 - (c) REFERENCE/DOCKET NUMBER: 0003/00332
- (ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (312) 621-1330

 - TELEFAX: (312) 621-0088 (B)

(2) INFORMATION FOR SEQ ID NO: 1:

- SEQUENCE CHARACTERISTICS:
 - LENGTH: 111 amino acids
 - TYPE: amino acid
 - STRANDEDNESS: Single (c)
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Pro

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Asn Leu Leu

Asp Ala Ser Phe Asp Thr Asn Thr Leu Ala Trp Tyr Gln Gln Lys 35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ser Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr

Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly 95 100 105

Thr Lys Leu Glu Ile Lys

(2) INFORMATION FOR SEQ ID NO: 2 **SEQUENCE CHARACTERISTICS:** LENGTH: 111 amino acids (A) (B) TYPE: amino acid (c) STRANDEDNESS: Single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu 1 5 10 15 Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu 20 25 30 Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45 Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60 Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75 Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr 80 85 90 Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly 95 100 105 Thr Lys Leu Glu Ile Lys 110 (2) INFORMATION FOR SEQ ID NO: 3

- **SEQUENCE CHARACTERISTICS:**
 - (A) LENGTH: 111 amino acids
 - TYPE: amino acid (B)
 - (c) STRANDEDNESS: Single
 - TOPOLOGY: linear (D)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu 1 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu 20 25 30

Tyr Ser Ser Asn Ser Thr Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr 80 85 90

Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly

Thr Lys Leu Glu Ile Lys 110

(2) INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 111 amino acids (A)

(B)

TYPE: amino acid STRANDEDNESS: Single TOPOLOGY: linear (c)

(D)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu 10

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu 20 25 30

Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Glu Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr 65 70 75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr 80 85 90

Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly 95 100 105

Thr Lys Leu Glu Ile Lys

(2) INFORMATION FOR SEQ ID NO: 5:

- SEQUENCE CHARACTERISTICS:
 - LENGTH: 111 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu 20 25 30

Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg 50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr

Tyr Cys Leu Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly 95 Thr Lys Leu Glu Ile Lys 110 Tyr Ser Phe Gly Gln Gly 105